Name : _____ Score : _____

Teacher : _____ Date : _____

Find Tangent Lines

Find the equation of the tangent line at the given point. Round to the nearest ten-thousandth.

1) $y = \frac{-x - 1}{x^3 - 7x + 6}$, at (-1, 0)

2) $y = x^2 + 4x$, at (-1, -3)

3) $y = \frac{x - 2}{x^3 - 2x^2 - 16x + 32}$, at (-2, -0.0833)

4) $y = \cos(x^2 + 7x + 10)$, at $(\frac{-3\pi}{4}, 0.5884)$

5) $y = \cos(x^2 + x - 6)$, at $(2\pi, -0.4721)$

6) $y = 2^{(-x - 2)}$, at (2, 0.0625)

7) $y = e^{(-x + 2)}$, at (1, 2.7183)

8) $y = x^3 - 3x^2 - 6x + 8$, at (-1, 10)

Name : _____ Score : _____

Teacher : _____ Date : _____

Find Tangent Lines

Find the equation of the tangent line at the given point. Round to the nearest ten-thousandth.

1) $y = \frac{-x - 1}{x^3 - 7x + 6}$, at (-1, 0)

y = -0.0833x - 0.0833

2) $y = x^2 + 4x$, at (-1, -3)

y = 2x - 1

3) $y = \frac{x - 2}{x^3 - 2x^2 - 16x + 32}$, at (-2, -0.0833)

y = 0.0278x - 0.0278

4) $y = \cos(x^2 + 7x + 10)$, at $(\frac{-3\pi}{4}, 0.5884)$

y = 1.8497x + 4.9466

5) $y = \cos(x^2 + x - 6)$, at $(2\pi, -0.4721)$

y = -11.9592x + 74.6699

6) $y = 2^{(-x - 2)}$, at (2, 0.0625)

y = -0.0625x + 0.1875

7) $y = e^{(-x + 2)}$, at (1, 2.7183)

y = -2.7183x + 5.4366

8) $y = x^3 - 3x^2 - 6x + 8$, at (-1, 10)

y = 3x + 13